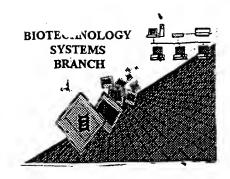
1210

## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	091998,551
Source:	OIPE
Date Processed by STIC:	12/10/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

## Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09 998,551
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version: 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

AMC - Biotechnology Systems Branch - 06/04/2001

OIPE

DATE: 12/10/2001

TIME: 16:34:40

```
Input Set : A:\09820155.ST25.txt
                      Output Set: N:\CRF3\12102001\I998551.raw
                                                                    Does Not Comply
                                                                    Corrected Diskette Needed
      3 <110> APPLICANT: Nelson, Bryce P
              Liles, Mark R
                                                                      Some errors on pp. 1-3
      5
              Frederick, Kendra
              Corn, Robert M
              Robert, Goodman M
      9 <120> TITLE OF INVENTION: Label-Free Detection of Nucleic Acids Via Surface Plasmon
Resonance
     11 <130> FILE REFERENCE: 09820.155
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/998,551
C--> 14 <141> CURRENT FILING DATE: 2001-11-29
     16 <150> PRIOR APPLICATION NUMBER: 09/456,038
     17 <151> PRIOR FILING DATE: 1999-12-03
     19 <150> PRIOR APPLICATION NUMBER: 09/368,991
     20 <151> PRIOR FILING DATE: 1999-08-05
     22 <150> PRIOR APPLICATION NUMBER: 60/132,342
     23 <151> PRIOR FILING DATE: 1999-05-04
     25 <160> NUMBER OF SEQ ID NOS: 14
     27 <170> SOFTWARE: PatentIn version 3.1
     29 <210> SEQ ID NO: 1
     30 <211> LENGTH: 20
                                                      - involid response, see error summary
Sheet item 10
     31 <212> TYPE: DNA
     32 <213> ORGANISM: (Synthetic oligonucleotide
     34 <220> FEATURE:
     35 <221> NAME/KEY: misc_feature
     36 <222> LOCATION: (12)..(12)
     37 <223> OTHER INFORMATION: n is A or C
     40 <400> SEQUENCE: 1
W--> 41 agagtttgat cntggctcag
                                                                                20
     44 <210> SEQ ID NO: 2
     45 <211> LENGTH: 19
     46 <212> TYPE: DNA
     47 <213> ORGANISM: Synthetic oligonucleotide
     49 <220> FEATURE:
     50 <221> NAME/KEY: misc_feature
     51 <222> LOCATION: (3)..(3)
     52 <223> OTHER INFORMATION: n is G or T
     55 <220> FEATURE:
     56 <221> NAME/KEY: misc_feature
     57 <222> LOCATION: (3)..(3)
     58 <223> OTHER INFORMATION: n is C or T
     61 <400> SEQUENCE: 2
W--> 62 ggntaccttg ttacgactt
                                                                                19
     65 <210> SEQ ID NO: 3
     66 <211> LENGTH: 20
     67 <212> TYPE: DNA
     68 <213> ORGANISM: Synthetic oligonucleotide
     70 <400> SEQUENCE: 3
     71 gtccccctct ttggtcttgc
                                                                                20
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/998,551

RAW SEQUENCE LISTING DATE: 12/10/2001 PATENT APPLICATION: US/09/998,551 TIME: 16:34:40

Input Set : A:\09820155.ST25.txt
Output Set: N:\CRF3\12102001\I998551.raw

```
74 <210> SEQ ID NO: 4
75 <211> LENGTH: 16
76 <212> TYPE: DNA
77 <213> ORGANISM: (Synthetic oligonucleotide
79 <400> SEQUENCE: 4
                                                                           16
80 ctccccgctg aaagta
83 <210> SEQ ID NO: 5
84 <211> LENGTH: 15
85 <212> TYPE: DNA
86 <213> ORGANISM: Synthetic oligonucleotide
88 <400> SEQUENCE: 5
                                                                           15
89 cggtgcttct tctgc
92 <210> SEQ ID NO: 6
93 <211> LENGTH: 21
94 <212> TYPE: DNA
95 <213> ORGANISM: (Synthetic oligonucleotide)
97 <400> SEQUENCE: 6
                                                                           21
98 cttttatgtt tgaaccatgc g
101 <210> SEQ ID NO: 7
102 <211> LENGTH: 16
103 <212> TYPE: DNA
104 <213> ORGANISM: (Synthetic oligonucleotide)
106 <400> SEQUENCE: 7
                                                                            16
107 ttccctaaca acagag
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 16
112 <212> TYPE: DNA
113 <213> ORGANISM: (Synthetic oligonucleotide)
115 <400> SEQUENCE: 8
                                                                            16
116 cgtggctttc tggtta
119 <210> SEQ ID NO: 9
120 <211> LENGTH: 17
121 <212> TYPE: DNA
122 <213> ORGANISM: (Synthetic oligonucleotide)
124 <400> SEQUENCE: 9
                                                                            17
125 actgctgcct cccgtag
128 <210> SEQ ID NO: 10
129 <211> LENGTH: 24
130 <212> TYPE: DNA
131 <213> ORGANISM: Synthetic oligonucleotide
133 <400> SEQUENCE: 10
                                                                            24
134 ggatgtgtgt ggagtgttag aaag
137 <210> SEQ ID NO: 11
138 <211> LENGTH: 18
139 <212> TYPE: DNA
140 <213> ORGANISM: Synthetic oligonucleotide
142 <400> SEQUENCE: 11
                                                                            18
143 gccgaagcca ccttttat
146 <210> SEQ ID NO: 12
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RAW SEQUENCE LISTING

DATE: 12/10/2001

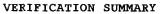
PATENT APPLICATION: US/09/998,551

TIME: 16:34:40

Input Set : A:\09820155.ST25.txt

Output Set: N:\CRF3\12102001\1998551.raw

147	<211> LENGTH: 18	
148	<212> TYPE: DNA	
149	<213> ORGANISM: Synthetic oligonucleotide >	
151	<400> SEQUENCE: 12	
152	ataaaaggtg gcttcggc	18
155	<210> SEQ ID NO: 13	
156	<211> LENGTH: 18	
157	<212> TYPE: DNA	
158	<213> ORGANISM: Synthetic oligonucleotide)	
160	<400> SEQUENCE: 13	
161	gccagcttat tcaactag	18
164	<210> SEQ ID NO: 14	
165	<211> LENGTH: 18	
166	<212> TYPE: DNA	
167	<213> ORGANISM: Synthetic oligonucleotide )	
169	<400> SEQUENCE: 14	
170	ctagttgaat aagctggc	18



DATE: 12/10/2001 PATENT APPLICATION: US/09/998,551 TIME: 16:34:41

Input Set : A:\09820155.ST25.txt

Output Set: N:\CRF3\12102001\1998551.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2